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Poster 4. Microstructure and mechanical properties of ZrB₂-Nb composites

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Microstructure and mechanical properties of ZrB_2 -Nb composite

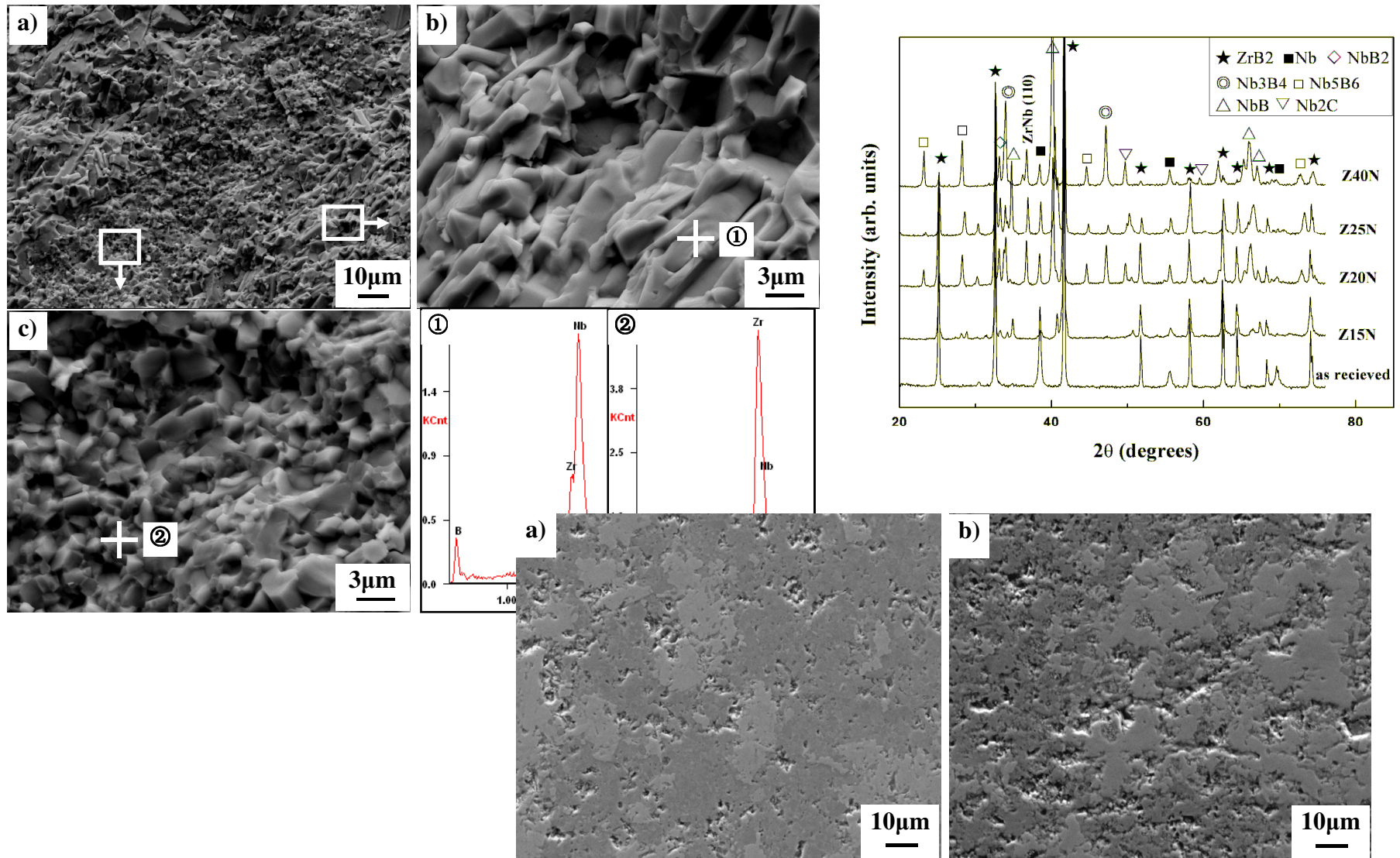
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ZrB_2 -Nb (ZN) composites were prepared by hot-pressing at 1800 °C for 60min. The effects of Nb content on densification, microstructure and mechanical properties of ZN composites were investigated.

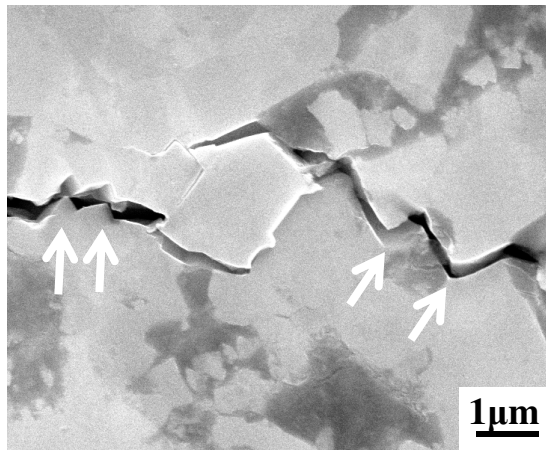
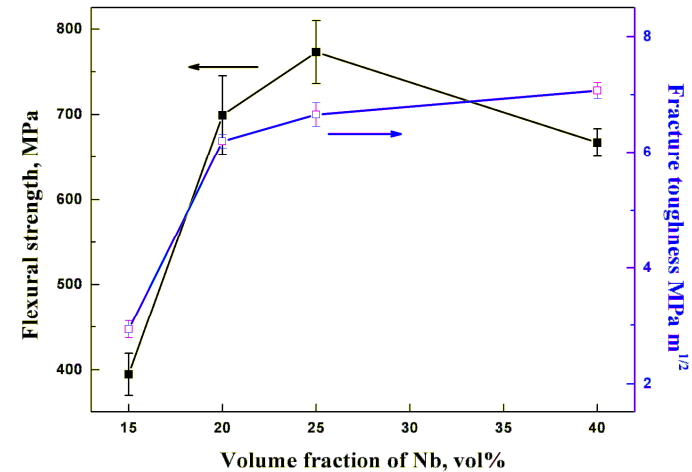
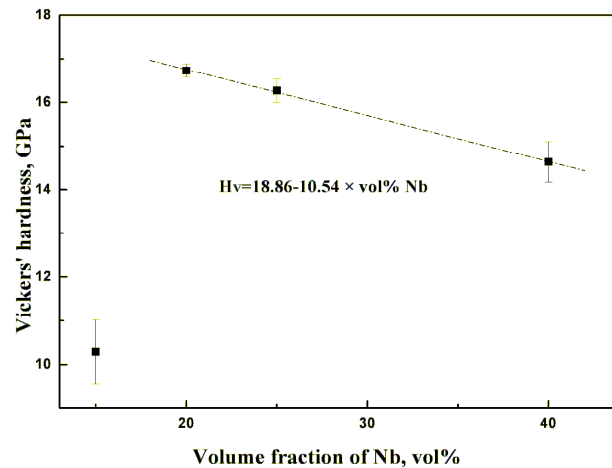


Results and discussion





Results and discussion



Ductile Nb deformation absorbs and dissipates a part of energy of crack initiation and propagation, leads to the improvement of fracture toughness.